





# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

PTO-1449

|                            |                    |
|----------------------------|--------------------|
| Docket Number              | Application Number |
| 016472-0311710             | 10/761,938         |
| Applicant(s)               |                    |
| Soheil SHAMS <i>et al.</i> |                    |
| Filing Date                | Group Art Unit     |
| January 21, 2004           | 2625               |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL | REF | DOCUMENT NO. | DATE       | NAME                        | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATE |
|----------------------|-----|--------------|------------|-----------------------------|-------|----------|----------------------------------|
| AT                   | 1A  | 4,550,084    | 10/29/1985 | Nelson <i>et al.</i>        | 436   | 45       |                                  |
|                      | 1B  | 4,641,528    | 02/10/1987 | Clayland, Jr. <i>et al.</i> | 73    | 597      |                                  |
|                      | 1C  | 5,121,320    | 06/09/1992 | Aoki <i>et al.</i>          | 364   | 413.01   |                                  |
|                      | 1D  | 5,134,662    | 07/28/1992 | Bacus <i>et al.</i>         | 382   | 6        |                                  |
|                      | 1E  | 5,202,932    | 04/13/1993 | Cambier <i>et al.</i>       | 382   | 8        |                                  |
|                      | 1F  | 5,273,632    | 12/28/1993 | Stockham <i>et al.</i>      | 204   | 180.1    |                                  |
|                      | 1G  | 5,389,792    | 02/14/1995 | DiMarzio <i>et al.</i>      | 250   | 370.06   |                                  |
|                      | 1H  | 5,417,923    | 05/23/1995 | Bojanic <i>et al.</i>       | 422   | 101      |                                  |
|                      | 1I  | 5,541,064    | 07/30/1996 | Bacus <i>et al.</i>         | 435   | 6        |                                  |
|                      | 1J  | 5,552,270    | 09/03/1996 | Khrapko <i>et al.</i>       | 435   | 6        |                                  |
|                      | 1K  | 5,560,811    | 10/01/1996 | Briggs <i>et al.</i>        | 204   | 451      |                                  |
|                      | 1L  | 5,580,728    | 12/03/1996 | Perlin                      | 435   | 6        |                                  |
|                      | 1M  | 5,581,631    | 12/03/1996 | Ortyn <i>et al.</i>         | 382   | 128      |                                  |
|                      | 1N  | 5,583,973    | 12/10/1996 | DeLisi <i>et al.</i>        | 395   | 120      |                                  |
|                      | 1O  | 5,680,514    | 10/21/1997 | Shams                       | 395   | 22       |                                  |
|                      | 1P  | 5,695,937    | 12/09/1997 | Kinzler <i>et al.</i>       | 435   | 6        |                                  |
|                      | 1Q  | 5,732,277    | 03/24/1998 | Kodosky <i>et al.</i>       | 395   | 800      |                                  |
|                      | 1R  | 5,757,954    | 05/26/1998 | Kuan <i>et al.</i>          | 382   | 133      |                                  |
|                      | 1S  | 5,773,218    | 06/30/1998 | Gallatin <i>et al.</i>      | 435   | 6        |                                  |
|                      | 1T  | 5,777,888    | 07/07/1998 | Rine <i>et al.</i>          | 364   | 496      |                                  |
|                      | 1U  | 5,785,658    | 07/28/1998 | Benaron <i>et al.</i>       | 600   | 473      |                                  |
|                      | 1V  | 5,811,517    | 09/22/1998 | Gallatin <i>et al.</i>      | 530   | 350      |                                  |
|                      | 1W  | 5,837,475    | 11/17/1998 | Dorsel <i>et al.</i>        | 435   | 7.1      |                                  |

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|    | REF | DOCUMENT NO. | DATE       | COUNTRY       | CLASS | SUBCLASS | Translations |    |
|----|-----|--------------|------------|---------------|-------|----------|--------------|----|
|    |     |              |            |               |       |          | YES          | NO |
| AT | 1X  | WO 01/16860  | 03/08/2001 | International |       |          |              |    |

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| AT | 1Y  | BIO001 - M. BURL, "Recognition of Visual Object Classes", <u>Jet Propulsion Laboratory</u> , V-0105, March 30, 1996, 12 pages.   |
| AT | 1Z  | BIO002 - M. TAINE and A. HERMENT, "Extraction of Heart and Vessel Walls on Ultrasound Images Using Snake-Splines", <u>SPIE</u> , Volume 2434, March 1995, pages 808-816.       |
| AT | 1AA | BIO003 - M. JOLLY, S. LAKSHMANAN and A. JAIN, "Vehicle Segmentation and Classification Using Deformable Templates", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 293-305. |
| AT | 1BB | BIO004 - Y. AMIT and A. KONG, "Graphical Templates for Model Registration", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 225-236.   |

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| AT                   | 2A  | 5,851,769    | 12/22/1998 | Gray <i>et al.</i>      | 435   | 6        |                                  |
|                      | 2B  | 5,853,979    | 12/29/1998 | Green <i>et al.</i>     | 435   | 5        |                                  |
|                      | 2C  | 5,865,975    | 02/02/1999 | Bishop                  | 204   | 618      |                                  |
|                      | 2D  | 5,869,262    | 02/09/1999 | Gallatin <i>et al.</i>  | 435   | 7.1      |                                  |
|                      | 2E  | 5,876,933    | 03/02/1999 | Perlin                  | 435   | 6        |                                  |
|                      | 2F  | 5,880,268    | 03/09/1999 | Gallatin <i>et al.</i>  | 530   | 387.3    |                                  |
|                      | 2G  | 5,887,074    | 03/23/1999 | Lai <i>et al.</i>       | 382   | 128      |                                  |
|                      | 2H  | 5,916,747    | 06/29/1999 | Gilchrist <i>et al.</i> | 435   | 6        |                                  |
|                      | 2I  | 5,945,284    | 08/31/1999 | Livak <i>et al.</i>     | 435   | 6        |                                  |
|                      | 2J  | 5,945,679    | 08/31/1999 | Dorsel <i>et al.</i>    | 250   | 458.1    |                                  |
|                      | 2K  | 5,970,164    | 10/19/1999 | Bamberger <i>et al.</i> | 382   | 128      |                                  |
|                      | 2L  | 5,980,096    | 11/09/1999 | Thalhammer-Reyero       | 364   | 578      |                                  |
|                      | 2M  | 5,981,190    | 11/09/1999 | Israel                  | 435   | 6        |                                  |
|                      | 2N  | 5,989,835    | 11/23/1999 | Dunlay <i>et al.</i>    | 435   | 7.2      |                                  |
|                      | 2O  | 6,040,176    | 03/21/2000 | Gallatin <i>et al.</i>  | 435   | 326      |                                  |
|                      | 2P  | 6,054,270    | 04/25/2000 | Southern                | 435   | 6        |                                  |
|                      | 2Q  | 6,100,383    | 08/08/2000 | Gallatin <i>et al.</i>  | 530   | 387.3    |                                  |
|                      | 2R  | 6,103,479    | 08/15/2000 | Taylor                  | 435   | 7.2      |                                  |
|                      | 2S  | 6,127,129    | 10/03/2000 | Corn <i>et al.</i>      | 435   | 6        |                                  |
|                      | 2T  | 6,150,179    | 11/21/2000 | Went                    | 436   | 173      |                                  |
|                      | 2U  | 6,185,581    | 02/06/2001 | Balaban <i>et al.</i>   | 707   | 6        |                                  |
|                      | 2V  | 6,207,958    | 03/27/2001 | Giakos                  | 250   | 385.1    |                                  |
|                      | 2W  | 6,222,093    | 04/24/2001 | Marton <i>et al.</i>    | 800   | 3        |                                  |

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|     |              |      |         |       |          | YES NO       |
|     |              |      |         |       |          |              |

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| AT | 2X  | BIO005 - B. OLSTAD and A. TORP, "Encoding of a Priori Information in Active Contour Models", <u>IEEE</u> , Volume 18, No. 9, September 1996, pages 863-872.                         |
| AT | 2Y  | BIO006 - A. ABRANTES and J. MARQUES, "A Class of Constrained Clustering Algorithms for Object Boundary Extraction", <u>IEEE</u> , Volume 5, No. 11, November 1996, pages 1507-1521. |
| AT | 2Z  | BIO007 - A. JAIN, Y. ZHONG and S. LAKSHMANAN, "Object Matching Using Deformable Templates", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 267-278.                              |
| AT | 2AA | BIO008 - M. KASS, A. WITKIN and D. TERZOPOULOS, "Snakes: Active Contour Models", <u>International Journal of Computer Vision</u> , 1998, pages 321-331.                             |

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| AT                   | 3A  | 6,223,186    | 04/24/2001 | Rigault <i>et al.</i>      | 707   | 104      |                                  |
|                      | 3B  | 6,226,542    | 05/01/2001 | Reisfeld                   | 600   | 407      |                                  |
|                      | 3C  | 6,245,517    | 06/12/2001 | Chen <i>et al.</i>         | 435   | 6        |                                  |
|                      | 3D  | 6,251,601    | 06/26/2001 | Bao <i>et al.</i>          | 435   | 6        |                                  |
|                      | 3E  | 6,263,092    | 07/17/2001 | Roehrig <i>et al.</i>      | 382   | 128      |                                  |
|                      | 3F  | 6,263,287    | 07/17/2001 | Zheng <i>et al.</i>        | 702   | 20       |                                  |
|                      | 3G  | 6,301,378    | 10/09/2001 | Karssemeijer <i>et al.</i> | 382   | 132      |                                  |
|                      | 3H  | 6,303,301    | 10/16/2001 | Mack                       | 435   | 6        |                                  |
|                      | 3I  | 6,308,170    | 10/23/2001 | Balaban                    | 707   | 3        |                                  |
|                      | 3J  | 6,341,256    | 01/22/2002 | Deem <i>et al.</i>         | 702   | 19       |                                  |
|                      | 3K  | 6,345,115    | 02/05/2002 | Ramm <i>et al.</i>         | 382   | 133      |                                  |
|                      | 3L  | 6,349,144    | 02/19/2002 | Shams (020,155)            | 382   | 129      |                                  |
|                      | 3M  | 6,362,004    | 03/26/2002 | Noblett                    | 436   | 43       |                                  |
|                      | 3N  | 6,362,832    | 03/26/2002 | Stephan <i>et al.</i>      | 345   | 629      |                                  |
|                      | 3O  | 6,381,058    | 04/30/2002 | Ramm <i>et al.</i>         | 359   | 242      |                                  |
|                      | 3P  | 2002/0052882 | 05/02/2002 | Taylor                     | 707   | 104.1    |                                  |
|                      | 3Q  | 6,389,428    | 05/14/2002 | Rigault <i>et al.</i>      | 707   | 104.1    |                                  |
|                      | 3R  | 6,441,973    | 08/27/2002 | Ramm <i>et al.</i>         | 359   | 778      |                                  |
|                      | 3S  | 6,453,241    | 09/17/2002 | Bassett, Jr. <i>et al.</i> | 702   | 19       |                                  |
|                      | 3T  | 6,462,187    | 10/08/2002 | Bandaru                    | 536   | 23.2     |                                  |
|                      | 3U  | 6,470,277    | 10/22/2002 | Chin <i>et al.</i>         | 702   | 19       |                                  |
| ↓                    | 3V  | 6,475,736    | 11/05/2002 | Stanton, Jr.               | 435   | 6        |                                  |
|                      | 3W  | 6,498,690    | 12/24/2002 | Ramm <i>et al.</i>         | 359   | 778      |                                  |

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|  |     |              |      |         |       |          | YES          | NO |
|  |     |              |      |         |       |          |              |    |
|  |     |              |      |         |       |          |              |    |

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| AT | 3Y | BIO010 - D. SHU, J. NASH, M. ESHAGHIAN and K. KIM, "Straight-Line Detection on a Gated-Connection VLSI Network", <u>P IEEE Comp. Soc.</u> , June 1990, pages 456-461.   |
| AT | 3Z | BIO011 - S. SHAMS, "Translation-, Rotation-, Scale-, and Distortion-Invariant Object Recognition Through Self-Organization", <u>International Journal of Neural Systems</u> , Volume 8, No. 2, April 1997, pages 173-179. |

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|----------------------|-----|--------------|------------|-----------------------------|-------|----------|----------------------------------|
| AT                   | 4A  | 6,498,863    | 12/24/2002 | Gaidoukevitch <i>et al.</i> | 382   | 173      |                                  |
|                      | 4B  | 6,537,749    | 03/25/2003 | Kuimelis <i>et al.</i>      | 435   | 6        |                                  |
|                      | 4C  | 6,544,790    | 04/08/2003 | Sabatini                    | 435   | 455      |                                  |
|                      | 4D  | 6,553,317    | 04/22/2003 | Lincoln <i>et al.</i>       | 702   | 20       |                                  |
|                      | 4E  | 2003/0100995 | 05/29/2003 | Loraine <i>et al.</i>       | 702   | 19       |                                  |
|                      | 4F  | 6,577,956    | 06/10/2003 | Shams                       | 702   | 19       |                                  |
|                      | 4G  | 6,591,196    | 07/08/2003 | Yakhini <i>et al.</i>       | 702   | 28       |                                  |
|                      | 4H  | 2003/0148295 | 08/07/2003 | Wan <i>et al.</i>           | 435   | 6        |                                  |
|                      | 4I  | 6,632,600    | 10/14/2003 | Short                       | 435   | 4        |                                  |
|                      | 4J  | 6,633,659    | 10/14/2003 | Zhou                        | 382   | 129      |                                  |
|                      | 4K  | 6,673,549    | 01/06/2004 | Furness <i>et al.</i>       | 435   | 6        |                                  |
|                      | 4L  | 6,674,882    | 01/06/2004 | Shams                       | 382   | 129      |                                  |
|                      | 4M  | 6,683,455    | 01/27/2004 | Ebbels <i>et al.</i>        | 324   | 309      |                                  |
|                      | 4N  | 6,690,399    | 02/10/2004 | Carlson <i>et al.</i>       | 345   | 771      |                                  |
|                      | 4O  | 6,714,925    | 03/30/2004 | Barnhill <i>et al.</i>      | 706   | 48       |                                  |
|                      | 4P  | 6,731,781    | 05/04/2004 | Shams <i>et al.</i>         | 382   | 129      |                                  |
|                      | 4Q  | 6,760,715    | 07/06/2004 | Barnhill <i>et al.</i>      | 706   | 16       |                                  |
|                      | 4R  | 6,789,069    | 09/07/2004 | Barnhill <i>et al.</i>      | 706   | 12       |                                  |
|                      | 4S  | 6,839,454    | 01/04/2005 | Park                        | 382   | 128      |                                  |

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| AT | 4U | BIO013 - M. S. BOGUSKI and G. D. SCHULER, "Establishing a Human Transcript Map", <u>Nature Genetics</u> , Volume 10, No. 4, 1995, pages 369-371.  |  |  |  |  |  |  |
| AT | 4V | BIO014 - G. D. SCHULER, M. S. BOGUSKI, <i>et al.</i> , "A Gene Map of the Human Genome", <u>Science</u> , Volume 274, Issue 5287, October 25, 1996, pages 540-546.  |  |  |  |  |  |  |
| AT | 4W | BIO015 - M. SCHENA, D. SHALON, R. W. DAVIS, and P. O. BROWN, "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray", <u>Science</u> , Volume 270, No. 5235, October 20, 1995, pages 467-470. |  |  |  |  |  |  |

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|----|----|---|
| AT | 5A | BIO016 - J. DeRISI, L. PENLAND, P. O. BROWN, M. L. BITTNER, P. S. MELTZER, M. RAY, Y. CHEN, Y. A. SU, and J. M. TRENT, "Use of a cDNA Microarray to Analyze Gene Expression Patterns in Human Cancer", <i>Nature Genetics</i> , Volume 14, No. 4, December 1996, pages 457-460. |
|    | 5B | BIO017 - M. SCHENA, D. SHALON, R. HELLER, A. CHAI, P. O. BROWN, and R. W. DAVIS, "Parallel Human Genome Analysis: Microarray-based Expression Monitoring of 1000 Genes", <i>Proc. Nat. Acad. Sci. U.S.A.</i> , Volume 93, No. 20, October 1996, pages 10614-10619.              |
|    | 5C | BIO018 - SCHENA, "Genome Analysis with Gene Expression Microarrays", <i>BioEssays</i> , Volume 18, No. 5, January 3, 1996, pages 427-431.   |
|    | 5D | BIO019 - LEMIEUX, AHARONI, and SCHENA, "Overview of DNA Chip Technology", <i>Molecular Breeding</i> , 1998, pages 277-289.  |
|    | 5E | BIO020 - SCHENA, HELLER, THERIAULT, KONRAD, LACHENMEIER, and DAVIS, "Microarrays: Biotechnology's Discovery Platform for Functional Genomics", <i>Tibtech</i> , Volume 16, July 1998, pages 301-306.  |
|    | 5F | BIO021 - HELLER, SCHENA, CHAI, SHALON, BEDILION, GILMORE, WOOLLEY, and DAVIS, "Discovery and Analysis of Inflammatory Disease-Related genes using cDNA Microarrays", <i>Proc. Natl. Acad. Sci. USA</i> , Volume 94, March 1997, pages 2150-2155.                                |
|    | 5G | BIO022 - SCHENA and DAVIS, "Parallel Analysis with Biological Chips", <i>PCR Methods Manual</i> , pages 445-455.  |
|    | 5H | BIO023 - SCHENA and DAVIS, <i>DNA Microarray Protocols</i> , 19 pages.  |
|    | 5I | BIO024 - ArrayIt, "Micro-Spotting Device for a Broad Range of Microarray Manufacturing Applications", <i>Chip Maker 2 Handbook</i> , June 1, 1998, 8 pages.   |
|    | 5J | BIO025 - ArrayIt, "Micro-Spotting Device for a Broad Range of Microarray Manufacturing Applications", <i>Chip Maker 3 Handbook</i> , December 8, 1998, 8 pages.   |
|    | 5K | BIO026 - ArrayIt, "High-Throughput Purification of PCR Products for DNA Microarrays, Sequencing and Other Applications in Genomics", <i>96 &amp; 384 Well PCR Purification Kits</i> , 4 pages.  |
| ↓  | 5L | BIO027 - ArrayIt, "Designed for Hybridization Reactions Involving Nucleic Acid Microarray Biochips", <i>Hybridization Cassette Handbook</i> , 1998, 10 pages.   |

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| <b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b>  |     |   |      | Docket Number              |       | Application Number |                                  |
|   |     |   |      | 016472-0311710             |       | 10/761,938         |                                  |
|   |     |   |      | Applicant(s)               |       |                    |                                  |
|   |     |   |      | Soheil SHAMS <i>et al.</i> |       |                    |                                  |
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